

James Mou

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PROFESSIONAL SUMMARY

Full-stack software developer and final-year BSc Biomedical Science student with hands-on experience building and shipping web applications across the full software development lifecycle. Skilled in JavaScript, TypeScript, Python, React, Next.js and Node.js, with REST APIs, authentication, and SQL and NoSQL databases (PostgreSQL, MongoDB). Comfortable with Git, Linux, Agile delivery and cloud deployment.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS, C

Frameworks & Libraries: React, Next.js, Node.js, Express, Tailwind CSS

Databases: PostgreSQL, MongoDB, SQL

Practices & Tools: REST APIs, Authentication, Git, Linux, Apache, Agile, SDLC, Testing (Vitest), CI/CD, DevOps, Data Structures, Algorithms

PROFESSIONAL EXPERIENCE

Full-Stack Developer — ACE Internship (Technical Archivist)

De Montfort University, Faculty of Health and Life Sciences, Leicester | Jun 2024 – Jan 2026

- Designed and built a full-stack web application to catalogue laboratory and teaching equipment using React, Next.js, MongoDB and Tailwind CSS, improving visibility of thousands of items.
- Iterated on user journeys and interfaces with academic and technical stakeholders to match real-world usage and reduce manual administration.
- Performed a database migration from MongoDB to PostgreSQL, including the accompanying server actions.
- Deployed and maintained the application on an Apache-configured Linux server.

Research Intern — Frontrunners Internship

De Montfort University, Faculty of Health and Life Sciences, Leicester | Oct 2025 – Mar 2026

- Applied structured, data-driven problem solving to clinical research: framed questions, planned database searches and screened literature.
- Extracted and organised key variables and contributed to technical reporting and documentation.

AI Readiness & AI Training Team Member (Volunteer)

Amnick Social Enterprise | May 2024 – Nov 2024

- Researched AI tooling and integration options to support internal product strategy, and explained technical concepts to non-technical stakeholders.

Publicity, Marketing & Logistics Officer

Jamata Drilling | 2021 – 2023

- Redeveloped the company website and improved SEO, contributing to a reported 60% increase in web traffic.

PROJECTS

Diplomat — Full-Stack Web Platform (Founder / Developer)

- Built a secure, audited platform with Better Auth multi-factor authentication (MFA), full account lifecycle and a content management system, using Next.js, TypeScript and a Neon PostgreSQL database.

Junub — Civic Engagement Platform (Founder / Developer)

- Developed a Next.js / React app on Supabase (PostgreSQL) with Zustand, offline-first storage (Dexie/IndexedDB), internationalisation (next-intl) and Vitest tests in a Turborepo monorepo.

EDUCATION

BSc (Hons) Biomedical Science

De Montfort University, Leicester | Sep 2023 – Jul 2026 | Expected: 2:1

- Relevant modules: Bioinformatics, Data Analysis, Professional Skills.

CS50x: Introduction to Computer Science — Harvard University / edX

2023 | C and Python, algorithms, data structures and debugging.

Self-Directed Software Development — Codecademy, Udemy, edX, freeCodeCamp | 2022 – Present